

WHAT IS CLAIMED IS:

1. A power device for a vehicle sliding door comprising a wheel arranged to be rotated about a support shaft by motor power, a fixed gear member supported by the support shaft, and a clutch for transmitting the rotation of the wheel to the fixed gear member, wherein said clutch comprising:

a moving gear member arranged to be rotated integrally with the wheel at all times, said moving gear member being engaged with the fixed gear member when the moving gear member is moved in a first direction and being disengaged from the fixed gear member when the moving gear member is moved in a second direction opposite to the first direction;

an armature for pushing out the moving gear member in the first direction when the armature is rotated relatively to the moving gear member; and

an electromagnetic coil portion for applying brake resistance to the armature by attracting the armature by magnetic force to restrict a concurrently-rotating-state of the armature and the moving gear member.

2. A power device for a vehicle sliding door according to claim 1, wherein said wheel is rotatably mounted on an outer periphery of the electromagnetic coil portion.

3. A power device for a vehicle sliding door according to claim 1, further comprising a wire drum connected to the fixed gear member, and a door-opening cable and a door-closing cable wound around the wire drum for sliding the vehicle sliding door in a door-opening direction and in a door-closing

direction.

4. A power device for a vehicle sliding door according to claim 2, further comprising a wire drum connected to the fixed gear member, and a door-opening cable and a door-closing cable wound around the wire drum for sliding the vehicle sliding door in a door-opening direction and in a door-closing direction.